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CLAIMS

1. A fixing device, comprising:

two surface moving bodies, at least one of
5 which is driven so that the surface moving bodies
come in contact with each other, a nip is formed, and
surfaces of the surface moving bodies in contact move
in the same direction; and

10 a heat source configured to heat at least
one of the surface moving bodies;

wherein a transfer medium having a surface
where a non-fixed toner image is formed is put in the
nip so that the toner image is heat-fixed on the
transfer medium;

15 the fixing device further comprises a
separation plate configured to remove the transfer
medium, the transfer medium not being separated from
the surface moving body after the transfer medium
passes through the nip, from the surface moving body;
20 and

rise of temperature of a head end part, at a
side of the surface moving body, of the separation
plate is given priority over rise of temperature of
other parts of the separation plate.

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2. The fixing device as claimed in claim 1,
wherein the separation plate has a structure
where a heat capacity of the head end part, at the
surface moving body side, of the separation plate is
5 lower than a heat capacity of other parts of the
separation plate.

3. The fixing device as claimed in claim 1,
wherein the separation plate includes a heat
10 conductivity limitation part configured to limit a
transfer of the heat at the surface moving body side
of the separation plate to other parts of the
separation plate.

15 4. The fixing device as claimed in claim 1,
wherein the separation plate includes a
reinforcing part configured to reinforce the head end
part at the surface moving body; and
the reinforcing part faces a part of the
20 surface moving body, the part having a temperature
higher than a surface average temperature in an axial
direction of the surface moving body, in a position
facing the head end part at the side of the surface
moving body of the separation plate.

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5. The fixing device as claimed in claim 4,
wherein heating values of the heat source in
an axial direction vary so that the temperature of
the part of the surface moving body facing the
5 reinforcing part is higher than a surface average
temperature in the axial direction of the surface
moving body.

10 6. The fixing device as claimed in claim 1,
wherein the reinforcing part is provided in
a position facing an end part of a conveyed transfer
medium.

15 7. The fixing device as claimed in claim 1,
wherein the separation plate includes a
water vapor receiving part configured to receive a
water vapor generated from a transfer medium; and
the water vapor receiving part is provided
in a position where water being condensed at the
20 water vapor receiving part does not drop onto the
head end part at the side of the surface moving body.

25 8. The fixing device as claimed in claim 7,
wherein the water vapor receiving part is
provided in a position separated from the head end

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part at the surface moving body away from a conveyance surface of the transfer medium.

9. The fixing device as claimed in claim 7,
5 wherein the water vapor receiving part is made of a material having a low heat conductivity.

10. An image forming apparatus, comprising:
a toner image forming part configured to
10 form a toner image on a transfer medium; and
a fixing part configured to fix the toner image to the transfer medium;
wherein the fixing part comprising:
two surface moving bodies, at least one of
15 which is driven so that the surface moving bodies come in contact with each other, a nip is formed, and surfaces of the surface moving bodies in contact move in the same direction; and
a heat source configured to heat at least
20 one of the surface moving bodies;
wherein a transfer medium having a surface where a non-fixed toner image is formed is put in the nip so that the toner image is heat-fixed on the transfer medium;
25 the fixing device further comprises a

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separation plate configured to remove the transfer medium, the transfer medium not being separated from the surface moving body after the transfer medium passes through the nip, from the surface moving body;

5 and

rise of temperature of a head end part, at a side of the surface moving body, of the separation plate is given priority over rise of temperature of other parts of the separation plate.

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11. The image forming apparatus as claimed in claim 10,

wherein the separation plate has a structure where a heat capacity of the head end part, at the 15 surface moving body side, of the separation plate is lower than a heat capacity of other parts of the separation plate.

12. The image forming apparatus as claimed 20 in claim 10,

wherein the separation plate includes a heat conductivity limitation part configured to limit a transfer of the heat at the surface moving body side of the separation plate to other parts of the 25 separation plate.

13. The image forming apparatus as claimed
in claim 10,

wherein the separation plate includes a
5 reinforcing part configured to reinforce the head end
part at the surface moving body; and

the reinforcing part faces a part of the
surface moving body, the part having a temperature
higher than a surface average temperature in an axial
10 direction of the surface moving body, in a position
facing the head end part at the side of the surface
moving body of the separation plate.

14. The image forming apparatus as claimed
15 in claim 13,

wherein heating values of the heat source in
an axial direction vary so that the temperature of
the part of the surface moving body facing the
reinforcing part is higher than a surface average
20 temperature in the axial direction of the surface
moving body.

15. The image forming apparatus as claimed
in claim 10,
25 wherein the reinforcing part is provided in

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a position facing an end part of a conveyed transfer medium.

16. The image forming apparatus as claimed
5 in claim 10,

wherein the separation plate includes a water vapor receiving part configured to receive a water vapor generated from a transfer medium; and

the water vapor receiving part is provided
10 in a position where water being condensed at the water vapor receiving part does not drop onto the head end part at the side of the surface moving body.

17. The image forming apparatus as claimed
15 in claim 16,

wherein the water vapor receiving part is provided in a position separated from the head end part at the surface moving body away from a conveyance surface of the transfer medium.

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18. The image forming apparatus as claimed
in claim 16,

wherein the water vapor receiving part is made of a material having a low heat conductivity.

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